```
Last login: Thu Sep 25 09:41:36 on ttys001
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % losf - i
zsh: command not found: losf
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % lsof -i
COMMAND   PID                     USER   FD   TYPE             DEVICE SIZE/OFF NODE NAME
ControlCe 452 hackerdontknowhowtobuild    8u  IPv4 0x6d7b3a9457609c37      0t0  TCP *:afs3-fileserver (LISTEN)
ControlCe 452 hackerdontknowhowtobuild    9u  IPv6 0xeb349b388b1c834c      0t0  TCP *:afs3-fileserver (LISTEN)
ControlCe 452 hackerdontknowhowtobuild   10u  IPv4 0xe6004d1580f857de      0t0  TCP *:commplex-main (LISTEN)
ControlCe 452 hackerdontknowhowtobuild   11u  IPv6 0x8672800fffc39cad      0t0  TCP *:commplex-main (LISTEN)
rapportd  455 hackerdontknowhowtobuild   10u  IPv4 0x92eb38243df188cc      0t0  TCP *:49173 (LISTEN)
rapportd  455 hackerdontknowhowtobuild   11u  IPv6 0x650ef74fafe391b9      0t0  TCP *:49173 (LISTEN)
identitys 478 hackerdontknowhowtobuild    7u  IPv4 0xfa31a802a206c673      0t0  UDP *:*
identitys 478 hackerdontknowhowtobuild   15u  IPv4 0x22c075545dcc5d00      0t0  UDP *:*
identitys 478 hackerdontknowhowtobuild   20u  IPv4 0x63cdc5341d4adc34      0t0  UDP *:*
replicato 488 hackerdontknowhowtobuild    8u  IPv6 0xaaef0251e84427c7      0t0  UDP *:56071
sharingd  499 hackerdontknowhowtobuild    4u  IPv4  0x9ab12b5b23c9fef      0t0  UDP *:*
sharingd  499 hackerdontknowhowtobuild    9u  IPv6 0x7a890a9ae5d6f71e      0t0  UDP *:53046
corespeec 642 hackerdontknowhowtobuild    4u  IPv6 0xd7b642a8d4e0e4f5      0t0  TCP [fe80:7::aede:48ff:fe00:1122]:49186-
>[fe80:7::aede:48ff:fe33:4455]:49240 (ESTABLISHED)
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % script - a logfile.txt
Script started, output file is -
script: a: No such file or directory

Script done, output file is -
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % logfile.txt
zsh: command not found: logfile.txt
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % logs
zsh: command not found: logs
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % log
usage:
    log <command>

global options:
    -?, --help
    -q, --quiet
    -v, --verbose

commands:
    collect         gather system logs into a log archive
    config          view/change logging system settings
    diagnose        diagnose an archive for a variety of issues
    erase           delete system logging data
    repack          repack a log archive using a predicate
    show            view/search system logs
    stream          watch live system logs
    stats           show system logging statistics

further help:
    log help <command>
    log help predicates
    log help shorthand
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % log predicates
log: Unknown subcommand 'predicates'
usage:
    log <command>

global options:
    -?, --help
    -q, --quiet
    -v, --verbose

commands:
    collect         gather system logs into a log archive
    config          view/change logging system settings
    diagnose        diagnose an archive for a variety of issues
    erase           delete system logging data
    repack          repack a log archive using a predicate
    show            view/search system logs
    stream          watch live system logs
    stats           show system logging statistics

further help:
    log help <command>
    log help predicates
    log help shorthand
hackerdontknowhowtobuild@RAFAELs-MacBook-Pro ~ % log help predicates
Use an NSPredicate, or a shorthand query. See `log help shorthand`
valid predicate fields:
    activityIdentifier                  (integer)
    bootUUID                            (uuid)
    category                            (string)
    composedMessage                     (string)
```

```
    continuousNanosecondsSinceBoot       (integer)
    creatorActivityIdentifier            (integer)
    creatorProcessUniqueIdentifier       (integer)
    date                                 (date)
    formatString                         (string)
    logType                              (log type)
    machContinuousTimestamp              (integer)
    parentActivityIdentifier             (integer)
    process                              (string)
    processIdentifier                    (integer)
    processImagePath                     (string)
    processImageUUID                     (uuid)
    sender                               (string)
    senderImageOffset                    (integer)
    senderImagePath                      (string)
    senderImageUUID                      (uuid)
    signpostIdentifier                   (integer)
    signpostScope                        (signpost scope)
    signpostType                         (signpost type)
    size                                 (integer)
    subsystem                            (string)
    threadIdentifier                     (integer)
    timeToLive                           (integer)
    traceIdentifier                      (integer)
    transitionActivityIdentifier         (integer)
    type                                 (event type)

valid event types:
    activityCreateEvent, activityTransitionEvent, userActionEvent,
    traceEvent, logEvent, timesyncEvent, signpostEvent, lossEvent,
    stateEvent

valid log types:
    default, release, info, debug, error, fault

valid signpost scopes:
    thread, process, system

valid signpost types:
    event, begin, end

valid comparison operators:
   AND, &&, &              : and condition test
   OR, ||                  : or condition test
   NOT, !                  : not condition test
   !=, <>, ==, =           : equality test
   <, >, <=, =<, >=, =>    : greater than/less than test
   BEGINSWITH              : left-hand expression begins with the right-hand expression
   CONTAINS                : left-hand expression contains the right-hand expression
   ENDSWITH                : left-hand expression ends with the right-hand expression
   LIKE                    : left-hand expression matches the right-hand expression:
                               ? and * are allowed as wildcard characters,
                               where ? matches 1 character and * matches 0 or more characters
   MATCHES                 : left-hand expression equals the right-hand expression using a regex-style comparison

examples:
   show logs only from the 'Safari' process:
       log show --predicate 'process=="Safari"'

   show log events for a given pid that contain the text 'lorem ipsum':
       log show --predicate 'processIdentifier=93030 AND composedMessage CONTAINS "lorem ipsum"'

   show only fault and error messages for a given pid:
       log show --predicate 'processIdentifier=93030 AND (logType="fault" OR logType="error")'

   log fields corresponding to a log line:
       2024-05-30 08:40:15.980893-0400 0x26166c   Default     0x0                  90092  0    log: (libxpc.dylib)   [co
m.apple.xpc:connection]
     [0x6000007081e0] activating connection: mach=true listener=false peer=false name=com.apple.logd.admin

       where

       '2024-05-30 08:40:15.980893-0400' == date
       '0x26166c' == threadIdentifier
       'Default' == logType
       '90092' == processIdentifier
       'log' == process
       'libxpc.dylib' == sender
       'com.apple.xpc' == subsystem
       'connection' == category
       'activating connection[...]' == composedMessage
```